

Lug/Snap-in Terminal Type(插入/自立型), Standard(標準品)

FEATURES

1. Directly mountable on printed circuit board without holders.
2. Smaller in sizes than ordinary capacitors.
3. Terminal spacing fixed at 10mm for PC board plug in.
4. Aluminum case designed with explosion-proof vent.



SPECIFICATIONS

Item	Performance Characteristics	
Operating Temperature Range	-40 to +85°C	-25 to +85°C
Rated Working Voltage Range	10 to 250V	315 to 500V
Nominal Capacitance Range	56 to 82000µF	
Capacitance Tolerance	±20% (120Hz, +20°C)	
Leakage Current	I ≤ 3 √CV (µA) after 5 minutes application of rated working voltage at +20°C	
tan δ (120Hz, +20°C)	Working Voltage (V)	10 16 25 35 50 63 80 100
	tan δ (max.)	0.55 0.50 0.45 0.40 0.35 0.30 0.25 0.20
	Working Voltage (V)	160 ~ 250 315 ~ 420 450 ~ 500
	tan δ (max.)	0.15 0.15 0.20
	For capacitance value > 33000µF, add following calculated value: $\frac{(\text{rated capacitance}) - 33000\mu\text{F}}{10000\mu\text{F}} \times 0.1$	
Low Temperature Characteristics	Impedance ratio max. at 120Hz	
	Working Voltage (V)	10 ~ 100 160 ~ 250 315 ~ 385 400 ~ 450 500
	Z-25°C / Z+20°C	4 3 5 8 8
	Z-40°C / Z+20°C	15 15 -- -- --
High Temperature Loading	Testing time : 2000 hours	Post test requirements at +20°C
	Testing temp. : + 85°C Testing condition : Rated DC working voltage with the max. ripple current	Leakage current : ≤ Initial specified value Cap. change : within ±20% of initial measured value tan δ : ≤ 200% of initial specified value
Shelf Life	At +85°C no voltage applied after 1000 hours and then being stabilized at +20°C the capacitors shall meet the following limits Leakage current : ≤ Initial specified value Cap. change : within ±15% of initial measured value tan δ : ≤ 150% of initial specified value	
Others	JIS C - 5101 (IEC 60384)	

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

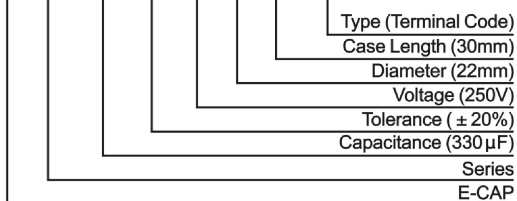
Frequency multiplying factor:

If capacitors are used to filter circuits at a frequency other than 120Hz, the maximum ripple current must be multiplied by the figure shown in the table below.

Freq.(Hz)	60	120	1k	10 ~ 50k
10 ~ 100V	0.90	1.00	1.15	1.25
160 ~ 250V	0.80	1.00	1.15	1.47
315 ~ 500V	0.80	1.00	1.15	1.47

PART NUMBER SYSTEM(EXAMPLE:250V330µF)

1 2 3 4 5 6 7 8 9 10 11 12 13 14
E LP 337 M 2E N 30 SW



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STANDARD RATINGS

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
2700	278							20 x 25	1.76
3300	338							20 x 30	2.14
3900	398							20 x 30	2.28
								22 x 25	2.22
4700	478					20 x 25	2.18	20 x 35	2.46
								22 x 30	2.46
								25 x 25	2.43
5600	568					20 x 30	2.33	22 x 35	2.79
						22 x 25	2.31	25 x 30	2.75
6800	688			20 x 25	2.33	20 x 35	2.56	22 x 40	2.97
						22 x 30	2.56	25 x 30	2.89
								30 x 25	3.09
8200	828			20 x 30	2.56	20 x 40	2.91	22 x 45	3.47
				22 x 25	2.56	22 x 35	2.86	25 x 35	3.33
						25 x 25	2.78	30 x 30	3.29
10000	109	20 x 25	2.22	20 x 35	2.85	22 x 35	3.31	22 x 50	3.75
				22 x 30	2.89	25 x 30	3.16	25 x 40	3.65
								30 x 30	3.61
12000	129	20 x 30	2.44	20 x 40	3.20	22 x 40	3.77	25 x 45	4.15
		22 x 25	2.41	22 x 30	3.13	25 x 35	3.63	30 x 35	4.14
				25 x 25	3.01	30 x 25	3.80	35 x 30	4.27
15000	159	20 x 35	2.90	22 x 35	3.69	22 x 50	4.21	30 x 40	4.80
		22 x 30	2.88	25 x 30	3.64	25 x 40	4.10		
		25 x 25	2.88	30 x 25	3.73	30 x 30	4.00		
18000	189	20 x 40	3.31	22 x 40	3.98	25 x 45	4.68	30 x 45	5.30
		22 x 35	3.22	25 x 35	3.98	30 x 35	4.66	35 x 40	5.71
		25 x 30	3.08	30 x 30	3.88	35 x 30	4.68		
22000	229	22 x 40	3.79	22 x 50	4.52	30 x 40	5.33	35 x 45	6.38
		25 x 30	3.66	25 x 40	4.44	35 x 35	5.26		
		30 x 25	3.53	30 x 30	4.38				
27000	279	22 x 45	4.04	25 x 45	4.98	30 x 45	6.02	35 x 50	6.90
		25 x 35	4.04	30 x 35	4.95	35 x 40	6.02		
		30 x 30	3.99	35 x 30	4.82				
33000	339	22 x 50	4.58	25 x 50	5.49	35 x 45	6.75		
		25 x 40	4.56	30 x 40	5.60				
		30 x 30	4.58	35 x 30	5.46				
39000	399	25 x 45	5.29	30 x 45	6.21	35 x 50	7.56		
		30 x 35	5.21	35 x 35	6.12				
		35 x 30	5.50						
47000	479	25 x 50	5.78	30 x 50	6.93				
		30 x 40	5.78	35 x 40	6.89				
		35 x 35	5.55						
56000	569	30 x 45	6.59	35 x 45	7.69				
		35 x 35	6.40						
68000	689	30 x 50	7.50						
		35 x 40	7.48						
82000	829	35 x 50	8.50						

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size φD x L(mm)

LP

Large Can Aluminum Electrolytic Capacitors

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Lug/Snap-in Terminal Type(插入/自立型), Standard(標準品)

STANDARD RATINGS

Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
680	687							20 x 25	1.66
820	827							20 x 30	1.85
								22 x 25	1.86
1000	108					20 x 25	1.56	20 x 35	2.02
								22 x 30	2.02
1200	128					20 x 30	1.80	20 x 40	2.12
								22 x 30	2.12
						22 x 25	1.77	25 x 25	2.11
1500	158			20 x 25	1.69	20 x 35	2.10	22 x 35	2.45
						22 x 30	2.01	25 x 30	2.47
1800	188	20 x 25	1.70	20 x 30	2.04	20 x 40	2.30	22 x 40	2.77
				22 x 25	1.90	22 x 30	2.11	25 x 35	2.81
						25 x 25	2.26	30 x 25	2.65
2200	228	20 x 30	2.07	20 x 35	2.40	22 x 40	2.53	22 x 45	3.15
		22 x 25	1.93	22 x 30	2.35	25 x 30	2.53	25 x 40	3.21
				25 x 25	2.30	30 x 25	2.56	30 x 30	3.17
2700	278	20 x 35	2.21	20 x 40	2.52	22 x 45	2.93	25 x 45	3.66
		22 x 30	2.21	22 x 35	2.50	25 x 35	2.93	30 x 35	3.65
				25 x 30	2.52	30 x 30	2.91	35 x 30	3.77
3300	338	20 x 40	2.41	22 x 40	2.72	22 x 50	3.23	25 x 50	4.15
		22 x 30	2.41	25 x 30	2.74	25 x 40	3.29	30 x 40	4.18
		25 x 25	2.38	30 x 25	2.78	30 x 30	3.25	35 x 35	4.07
3900	398	22 x 35	2.72	22 x 45	3.09	25 x 45	3.62	30 x 45	4.67
				25 x 35	3.13				
		25 x 30	2.68	30 x 30	3.09	30 x 35	3.70	35 x 35	4.61
4700	478	22 x 40	3.02	22 x 50	3.69	25 x 50	4.28	30 x 50	5.26
		25 x 30	3.07	25 x 40	3.59	30 x 40	4.23		
		30 x 25	3.01	30 x 30	3.54	35 x 30	4.12	35 x 40	5.23
5600	568	22 x 45	3.43	25 x 45	4.01	30 x 45	4.70	35 x 45	5.88
		25 x 35	3.47	30 x 35	4.00				
		30 x 30	3.43	35 x 30	3.75	35 x 35	4.64		
6800	688	22 x 50	3.94	25 x 50	4.52	30 x 50	5.27	35 x 50	6.01
		25 x 40	3.87	30 x 40	4.55				
		30 x 35	3.93	35 x 30	4.44	35 x 40	5.24		
8200	828	25 x 45	4.44	30 x 45	5.12				
		30 x 35	4.47			35 x 45	5.89		
		35 x 30	4.41	35 x 35	5.05				
10000	109	30 x 40	5.08	30 x 50	5.78				
		35 x 35	4.92	35 x 40	5.75	35 x 50	6.63		
12000	129	30 x 50	5.72						
		35 x 40	5.69	35 x 45	6.47				
15000	159	35 x 45	6.56						
18000	189	35 x 50	7.14						

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size φD x L(mm)

LP

Large Can Aluminum Electrolytic Capacitors

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Lug/Snap-in Terminal Type(插入/自立型), Standard(標準品)

STANDARD RATINGS

Voltage (Code)		160V (2C)		180V (2P)		200V (2D)		220V (2N)			
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		
180	187							20 x 25	1.11		
220	227					20 x 25	1.19	20 x 25	1.23		
								22 x 25	1.30		
270	277	20 x 25	1.28	20 x 25	1.29	20 x 30	1.39	20 x 30	1.46		
						22 x 25	1.37	22 x 25	1.42		
330	337	20 x 25	1.55	20 x 30	1.77	20 x 30	1.56	20 x 35	1.64		
								22 x 25	1.49	22 x 25	1.59
390	397	20 x 30	1.63	20 x 30	1.84	20 x 35	1.74	20 x 40	1.79		
								22 x 30	1.73	22 x 35	1.80
								25 x 25	1.71	25 x 25	1.75
470	477	20 x 35	1.90	20 x 35	1.91	20 x 40	2.03	22 x 35	2.06		
		22 x 30	1.86	22 x 30	1.91	22 x 30	1.97	25 x 30	2.08		
		25 x 25	1.86	25 x 25	2.08	25 x 30	1.95	30 x 25	2.16		
560	567	20 x 40	2.14	20 x 40	2.15	22 x 40	2.18	22 x 40	2.22		
		22 x 30	2.15	22 x 35	2.25	25 x 30	2.15	25 x 35	2.38		
		25 x 30	2.15	25 x 25	2.25	30 x 25	2.15	30 x 25	2.18		
680	687	22 x 40	2.35	22 x 35	2.48	22 x 45	2.48	22 x 45	2.62		
		25 x 30	2.33	25 x 30	2.50	25 x 35	2.48	25 x 40	2.56		
		30 x 25	2.33	30 x 25	2.46	30 x 30	2.48	30 x 30	2.52		
820	827	22 x 45	2.68	22 x 40	2.86	22 x 50	2.81	25 x 45	2.91		
		25 x 35	2.65	25 x 35	2.75	25 x 40	2.79	30 x 35	2.84		
		30 x 30	2.64	30 x 25	2.69	30 x 30	2.75	35 x 30	2.79		
1000	108	22 x 50	3.02	25 x 40	3.06	25 x 45	3.28	25 x 50	3.53		
		25 x 40	3.00			30 x 35	3.15	30 x 40	3.36		
		30 x 30	2.96	30 x 30	3.10	35 x 30	3.25	35 x 30	3.29		
1200	128	25 x 45	3.43	25 x 45	3.63	25 x 50	3.61	30 x 45	3.72		
		30 x 35	3.41	30 x 35	3.55	30 x 40	3.61	35 x 35	3.68		
		35 x 30	3.40	35 x 30	3.49	35 x 35	3.57				
1500	158	30 x 40	3.96	30 x 40	4.10	30 x 45	4.13	35 x 40	4.10		
		35 x 35	3.94	35 x 35	4.02	35 x 40	4.06				
1800	188	30 x 45	4.31	30 x 45	4.55	35 x 45	4.59	35 x 45	4.52		
		35 x 35	4.28	35 x 35	4.54						
2200	228	35 x 40	4.96	35 x 40	4.83	35 x 50	5.25				
2700	278	35 x 50	5.57	35 x 50	5.30						

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size φD x L(mm)

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Lug/Snap-in Terminal Type(插入/自立型), Standard(標準品)

STANDARD RATINGS

Voltage (Code)		250V (2E)		315V (2F)		350V (2V)		385V (2Y)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
68	686							20 x 25	0.68
82	826							20 x 30	0.74
								22 x 25	0.76
100	107							20 x 30	0.86
								22 x 30	0.89
120	127					20 x 30	0.96	20 x 35	0.96
						22 x 25	1.04	22 x 30	0.98
								25 x 25	1.02
150	157			20 x 30	1.00	20 x 30	1.10	20 x 40	1.10
						22 x 30	1.20	22 x 35	1.12
						25 x 25	1.22	25 x 30	1.14
180	187	20 x 25	1.20	20 x 35	1.13	20 x 35	1.24	22 x 40	1.27
				22 x 30	1.29	22 x 30	1.34	25 x 35	1.30
				25 x 25	1.38	25 x 25	1.37	30 x 25	1.37
220	227	20 x 30	1.26	20 x 40	1.29	22 x 35	1.47	22 x 45	1.42
		22 x 25	1.24	22 x 35	1.41	25 x 30	1.53	25 x 35	1.48
				25 x 30	1.47	30 x 25	1.54	30 x 30	1.49
270	277	20 x 30	1.42	22 x 40	1.70	22 x 40	1.70	25 x 40	1.61
		22 x 30	1.50	25 x 30	1.70	25 x 35	1.73		
						30 x 25	1.80	30 x 35	1.64
330	337	20 x 35	1.68	22 x 45	1.91	22 x 45	1.87	25 x 50	1.80
		22 x 30	1.66	25 x 35	1.94	25 x 40	1.97	30 x 40	1.85
		25 x 25	1.61	30 x 30	1.98	30 x 30	2.03	35 x 30	1.87
390	397	20 x 40	1.92	22 x 50	2.07	25 x 40	2.14	30 x 40	2.05
		22 x 35	1.88	25 x 40	2.11	30 x 35	2.23		
		25 x 30	1.88	30 x 30	2.15	35 x 30	2.30	35 x 35	2.07
470	477	22 x 40	2.15	25 x 45	2.39	30 x 35	2.53	30 x 50	2.26
		25 x 35	2.15	30 x 35	2.38				
		30 x 25	2.04	35 x 30	2.36	35 x 30	2.55	35 x 40	2.26
560	567	22 x 45	2.48	30 x 40	2.63	30 x 40	2.73		
		25 x 35	2.35					35 x 45	2.59
		30 x 30	2.35	35 x 35	2.69	35 x 35	2.75		
680	687	25 x 40	2.67	30 x 45	2.80	35 x 40	3.15	35 x 50	2.80
		30 x 35	2.71	35 x 40	3.05				
820	827	25 x 50	3.01	30 x 50	3.28				
		30 x 35	2.98			35 x 45	3.47		
		35 x 30	2.96	35 x 45	3.45				
1000	108	30 x 45	3.56						
		35 x 35	3.48	35 x 50	3.57	35 x 50	3.60		
1200	128	30 x 50	3.99						
		35 x 40	3.84						
1500	158	35 x 45	4.33						
1800	188	35 x 50	4.54						

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size φD x L(mm)

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STANDARD RATINGS

Voltage (Code)		400V (2G)		420V (2M)		450V (2W)		500V (2H)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
56	566					20 x 25	0.61		
68	686	20 x 25	0.75	20 x 25	0.70	20 x 30	0.70		
						22 x 25	0.71		
82	826	20 x 30	0.82	20 x 30	0.80	20 x 35	0.80		
		22 x 25	0.84	22 x 25	0.85	22 x 25	0.86		
100	107	20 x 30	0.95	20 x 35	0.90	20 x 35	0.88	25 x 25	0.80
		22 x 30	0.99	22 x 30	0.97	22 x 30	0.95		
		25 x 25	0.99	25 x 25	0.98	25 x 25	0.97	30 x 25	0.90
120	127	20 x 35	1.07	20 x 35	1.04	20 x 40	0.99	25 x 30	0.89
		22 x 30	1.09	22 x 30	1.07	22 x 35	1.07		
		25 x 25	1.13	25 x 25	1.08	25 x 30	1.09	30 x 25	0.90
150	157	20 x 40	1.22	20 x 45	1.17	22 x 40	1.18		
		22 x 35	1.24	22 x 35	1.21	25 x 30	1.25	25 x 35	1.07
		25 x 30	1.27	25 x 30	1.26	30 x 25	1.29		
				30 x 25	1.30	30 x 25	1.29		
180	187	22 x 40	1.41	22 x 40	1.33	22 x 45	1.32		
		25 x 30	1.44	25 x 35	1.42	25 x 35	1.40	30 x 35	1.30
		30 x 25	1.52	30 x 25	1.48	30 x 30	1.45		
220	227	22 x 45	1.58	22 x 45	1.55	25 x 40	1.59		
		25 x 35	1.64	25 x 35	1.58	30 x 30	1.64	25 x 45	1.40
		30 x 30	1.66	30 x 30	1.65	35 x 30	1.66		
270	277	25 x 40	1.79	25 x 40	1.74	25 x 45	1.73	25 x 50	1.60
		30 x 30	1.82	30 x 35	1.90	30 x 35	1.89		
				35 x 30	1.94	35 x 30	1.90	30 x 40	1.55
330	337	25 x 45	2.00	25 x 50	2.20	30 x 40	2.12		
		30 x 35	2.05	30 x 35	1.98			30 x 45	1.80
		35 x 30	2.05	35 x 35	2.17	35 x 35	2.15		
390	397	30 x 40	2.26	30 x 40	2.22	30 x 45	2.35	30 x 50	2.10
		35 x 35	2.28	35 x 35	2.27	35 x 40	2.38		
470	477	30 x 45	2.51	30 x 45	2.50	35 x 45	2.68		
		35 x 40	2.54	35 x 40	2.61				
560	567	35 x 40	2.85	35 x 45	2.95				
680	687	35 x 50	3.10						

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size φD x L(mm)

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